



# Memorandum

EPA Region 5 Records Ctr.



227584

TO: Glenn Huber, Stan A. Huber Consultants, Inc.

cc: Tim Ramsey, Piper Marbury Rudnick & Wolfe  
Fred Micke, USEPA

FROM: Rich Berggreen

DATE: June 7, 2002

RE: Ingrowth Evaluation Procedure

At the request of USEPA, selected samples from the 341 East Ohio Street Site will be subjected to a series of tests to evaluate the impact of ingrowth on measured activity. Ingrowth is the accumulation of radioactive decay progeny in a sealed sample, specifically the gas progeny, which may be lost in the course of sampling. This accumulation may result in a gradual increase in measured activity as the sample reaches equilibrium in the decay sequence.

Each sample will consist of five sub-samples. All five sub-samples are to be from one composited, screened soil sample. This is equivalent to the samples used in closure verification sampling. Three sets of samples of three different activity levels, five sub-samples in each set for a total of 45 sub-samples, will be developed. One set is to be less than 7.1 pCi/g total radium (Ra226 + Ra228). The second set is to be approximately 7.1 pCi/g total radium. The third set is to be between 10 and 50 pCi/g total radium.

At the 341 East Ohio Street Site field laboratory, analysis will use Nutranal software and a NaI detector. Testing for each sample will be performed immediately upon recovery of the sample, i.e. less than eight hours from sampling. Subsequent analysis will be performed on each sample at intervals of 7, 14, 21 and 28 days.

The samples will be submitted to USEPA's laboratory at Argonne National Laboratory following completion of the 28 day sequence of testing.

A summary report of the ingrowth results will be prepared that is separate from the routine sample test results for the 341 East Ohio Street Site. Time for this testing will be reported separately from the routine testing on the 341 East Ohio Street Site.

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**FACSIMILE TRANSMISSION****Date:** June 10, 2002**To:** Fred Micke

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**Pages being transmitted, incl. Cover:** 2**CC:****Fax No.:****From:** Rich Berggreen**Phone:** 847-279-2500**Re:**

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**Message:**

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